

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A computer system comprising a plurality of computers, ~~first and second servers~~ a plurality of file servers connected to said computers via a network, a management server connected to said computers and said file servers via said network, a backup server connected to said ~~second management~~ server off said network, and a storage system connected to said ~~first and second file servers~~ and said management server off said network, with said storage system comprising a plurality of storage devices and a storage controller which controls said plurality of storage devices, wherein:

~~said first server comprises:~~ each of said file servers

_____ a first memory which manages a respective file system having a directory structure, stores a ~~first program;~~ program, and has

_____ a first CPU which executes said first program;

~~said second management server comprises:~~

_____ a second memory which manages a file system having a directory structure, stores a ~~second program;~~ program, and has

_____ a second CPU which executes said second program, wherein the file system managed by the management server includes the respective file systems managed by the plurality of file servers;

said second program comprises:

a part for making a request to one of said ~~first~~ file servers via said network for information necessary for said ~~second~~ management server to back up a file to said backup server as a backup object, said file being stored in said storage system and logically set with a path to said ~~first~~ requested file server when said request is made;

said first program comprises:

a part which responds to said request by sending said ~~second~~ management server, via said network, an identifier of a second storage device in said storage system that stores duplicate data of said file; and

said second program further comprises:

a part which makes a determination, based on said identifier received from the requested file server, whether the requested file server manages the file system having the file to be backed up according to the request;

a part which notifies the requested file server that backup of the file to be backed up will be performed, if the determination is that the requested file server manages the file system having the file to be backed up;

a part which obtains backup data from said duplicate data from said second storage device off said network, based on said identifier; and

a part which sends the obtained backup data to said backup server off said network.

2. (Canceled)

3. (currently amended) A computer system according to Claim 1, wherein:

said second program further comprises a part which sets the ~~second~~ management server with a path to said second storage device off said network, based on said identifier.

4. (Previously presented) A computer system according to Claim 1, wherein:
said file is stored in a first storage device in said storage system; and
said first program further comprises a part which inhibits write into said file in said first storage device while said file is being duplicated to said second storage device, and which writes inhibited data, waiting to be written into said file, into said first storage device while said file is being duplicated.

5. (Previously presented) A computer system according to Claim 1, wherein:
said first program further comprises:
a part which sends said storage system an ID of a port connected to said second storage device; and
a part which receives the identifier of said second storage device, with said identifier being sent by said storage system in response to receipt of said ID.

6. (Original) A computer system according to Claim 1, wherein:
said request includes a directory name of the backup object.

7-9. (canceled)

10. (currently amended) A ~~second~~ management server connected to a plurality of computers and a ~~first~~ plurality of file servers via a network, and off said network to a backup-up server and a storage system that comprises a plurality of storage devices and a storage controller for controlling said plurality of storage devices, wherein:

said ~~second~~ management server comprises:

—— a ~~memory which~~ manages a file system having a directory structure, stores a ~~second program; program,~~ and has

—— a CPU which executes said program, wherein the file system managed by the management server includes respective file systems managed by the plurality of file servers;

and

said ~~second~~ program comprises:

a part which makes a request to one of said first file servers via said network for information necessary for said ~~second~~ management server to back up a file to said backup server as a backup object, said file being stored in said storage system and set with a path to said ~~first~~ requested file server when said request is made;

a part which receives, via said network, an identifier of a second storage device in said storage system that stores duplicate data of said file, from said ~~first~~ requested file server;

—— a part which makes a determination, based on said identifier received from the requested file server, whether the requested file server manages the file system having the file to be backed up according to the request;

a part which notifies the requested file server that backup of the file to be backed up will be performed, if the determination is that the requested file server manages the file system having the file to be backed up;

a part which obtains backup data from said duplicate data from said second storage device off said network, based on said identifier; and

a part which sends the obtained backup data to said backup server.

11. (currently amended) A ~~second~~ management server according to Claim 10, wherein:

said second program further comprises a part which sets the ~~second~~ management server with a path to said second storage device off said network, based on said identifier.

12. (canceled)

13. (currently amended) A ~~second~~ management server according to Claim 10, wherein:

said request includes a directory name of the backup object.

14. (currently amended) A backup method for performing backup in a computer system comprising a plurality of computers, ~~first and second~~ a plurality of file servers connected to said computers via a network, a management server connected to said computers and said file servers via said network, a backup server connected to said ~~second~~ management server off said network, and a storage

system connected to said ~~first and second~~ file servers and said management server off said network, with said storage system comprising a plurality of storage devices and a storage controller which controls said plurality of storage devices, each of said file servers managing a respective file system having a directory structure, said management server having a file system having a directory structure, and the file system managed by the management server including the respective file systems managed by the plurality of file servers, wherein:

said ~~second~~ management server makes a request, via said network, to one of said ~~first~~ file servers for information necessary for said ~~second~~ management server to back up a file to said backup server as a backup object, said file being stored in said storage system and set with a path to said ~~first~~ requested file server when said request is made;

said ~~first~~ requested file server sends an identifier, via said network, of a second storage device in said storage system that stores duplicate data of said file, in response to said request;

said management server makes a determination, based on said identifier received from the requested file server, whether the requested file server manages the file system having the file to be backed up according to the request;

said management server notifies the requested file server that backup of the file to be backed up will be performed, if the determination is that the requested file server manages the file system having the file to be backed up;

said ~~second~~ management server obtains backup data from said duplicate data from said second storage device off said network, based on said identifier; and

said ~~second~~ management server sends the obtained backup data to said backup server.

15. (Canceled)

16. (currently amended) A backup method according to Claim 14, wherein:
said ~~second~~ management server sets the ~~second~~ management server with a path to said second storage device off said network, based on said identifier.

17. (currently amended) A backup method according to Claim 14, wherein:
said ~~first~~ requested file server inhibits write into said file, and writes inhibited data, waiting to be written into said file, into a first storage device in said storage system in which said file is stored, while said file is being duplicated.

18. (currently amended) A backup method according to Claim 14, wherein:
said ~~first~~ requested file server sends said storage system an ID of a port connected to said second storage device, and receives the identifier of said second storage device, with said identifier being sent by said storage system in response to receipt of said ID.

19. (Original) A backup method according to Claim 14, wherein:
said request includes a directory name of the backup object.